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PS11

Q2

[Assignment GitHub Link](https://github.com/sourav977/DSA-assignment)

**Description:**

1. **readInputs()** is used to retrieve and store the details from input file **inputPS11Q2.txt**.

**Weight and Damage** of each Ammunition is stored into corresponding **Weight[ ] and Damage[ ] list**

1. method **writeOutput()** : to write output to **outputPS11Q2.txt** file
2. method **process** (): used to process and generate the result
3. first **Cost** = Damage/Weight is calculated and stored into **Cost**[ ] list in decreasing order
4. means, ammunition with **Maximum Damage** will be stored in first location then the next and so on
5. Then select the entire Ammunition Pack for maximum damage
6. and if still **Total\_Weight != MaxWeight**, then selecting **fraction** of Ammunition
7. Output is written into **outputPS11Q2.txt** file

**Time Complexity:**

**For the python code that I have written**

Process() : it is O(N)